

FIG.1

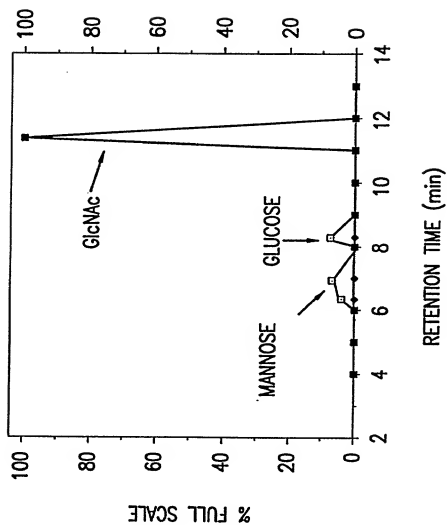


FIG.2

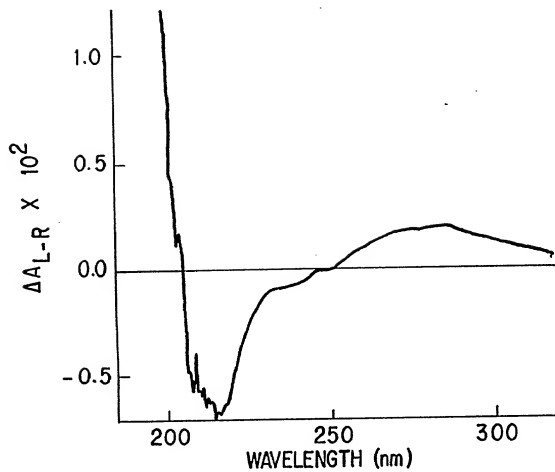


FIG. 3A

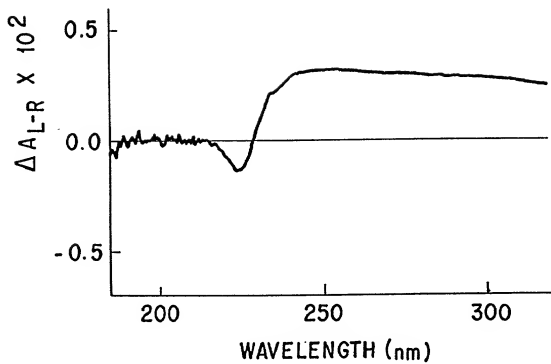


FIG. 3B

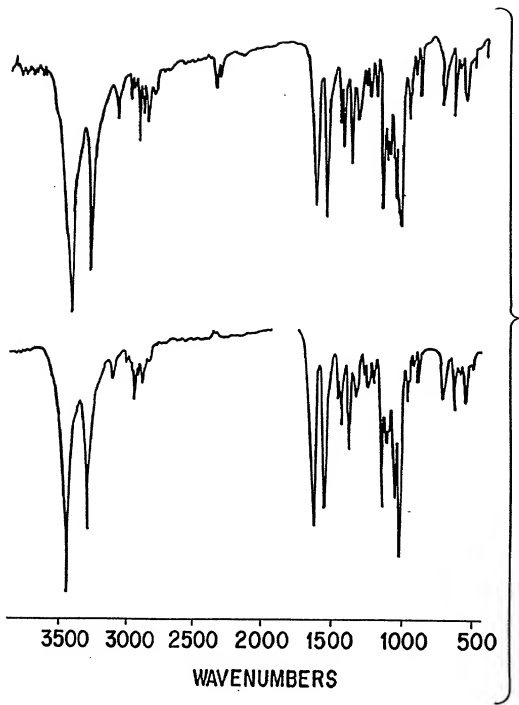


FIG. 4A

02781166.021201

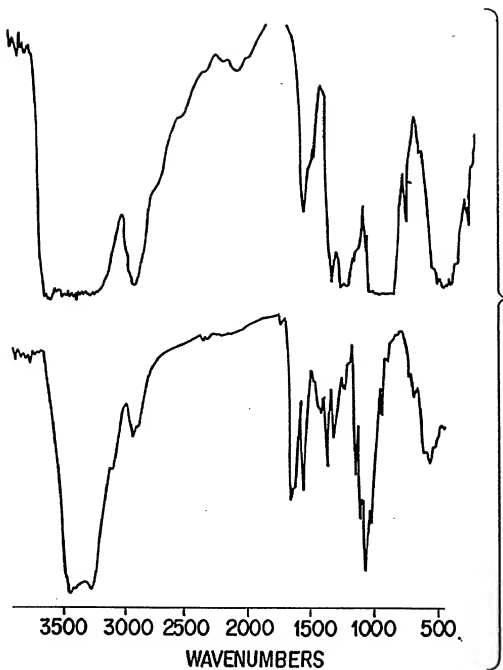


FIG.4B

09701100-051001

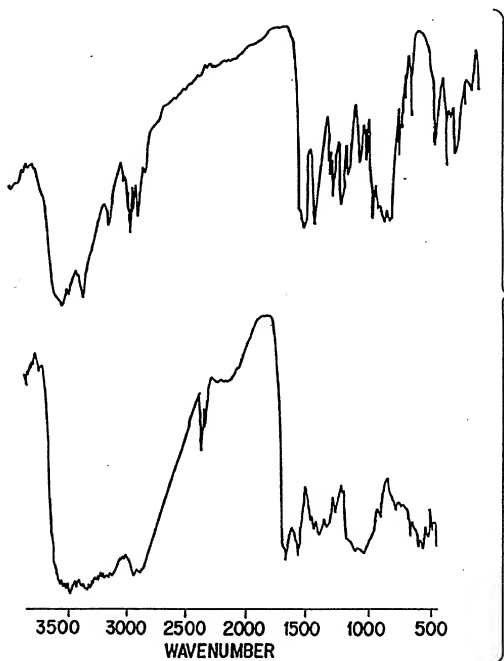


FIG. 4C

The infrared spectrum of polyacrylonitrile shows characteristic absorption bands. A sharp, intense peak is observed at approximately 2200 cm⁻¹, corresponding to the nitrile (C≡N) stretching vibration. A broad absorption band is visible in the 3000-3100 cm⁻¹ region, associated with the aromatic C-H stretching. The fingerprint region (below 1500 cm⁻¹) contains several sharp, well-defined peaks, including a prominent one at approximately 1450 cm⁻¹ and another at 1380 cm⁻¹, which are characteristic of the nitrile group and the polymer backbone.

FIG. 4D



100120-29118260

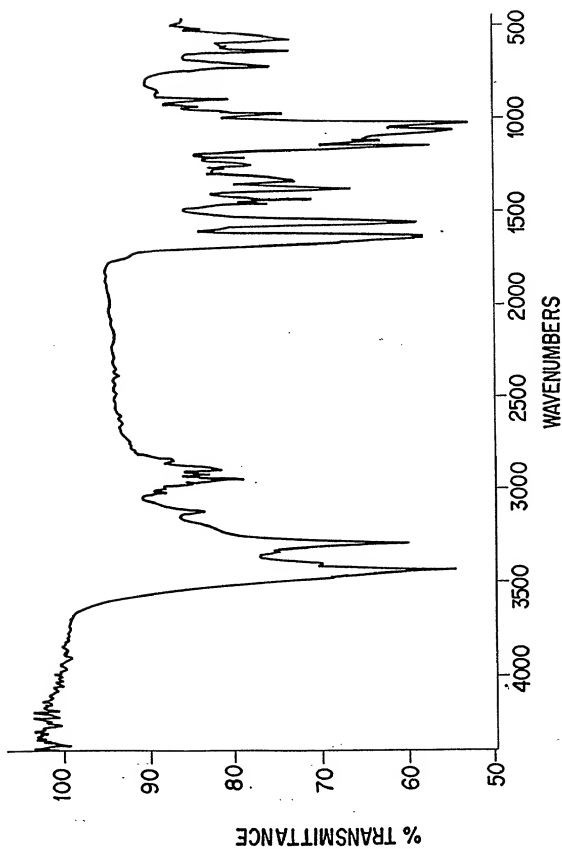


FIG. 4E

PEAK	%RF		AMPLITUDE	%SIGMA	AREA	%TOTAL		RATIO	RATIO
1	5	C=O	0.087	0.29	1.304	1.674			5.609
2	6	C=O	0.146	0.38	2.855	3.664	4.159	1.759	2.562
3	47	C1	0.563	0.38	11.153	14.314	11.153	0.656	0.656
4	59	C4	0.452	0.32	7.41	9.51	7.410	0.987	0.987
5	63	C5	0.311	0.49	7.906	10.147	7.906	0.925	0.925
6	64	C3	1.195	0.16	9.816	12.598			0.745
7	65	C3	0.533	0.4	11.11	14.259	20.926	0.350	0.658
8	72	C6	0.148	1.1	8.419	10.805			0.869
9	73	C6	0.21	0.18	1.98	2.541	10.399	0.703	3.694
10	74	C2	0.026	0.2	0.27	0.346			27.089
11	75	C2	0.227	0.72	8.38	10.755	8.650	0.846	0.873
12	94	CH3	0.377	0.38	7.314	9.387			1.000

FIG.5A

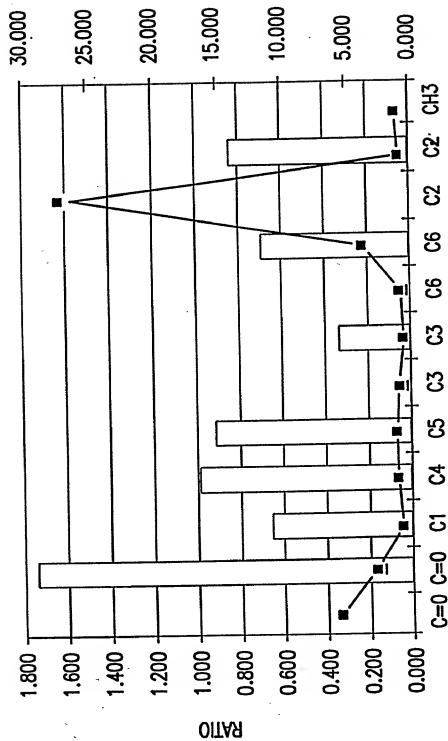


FIG.5B

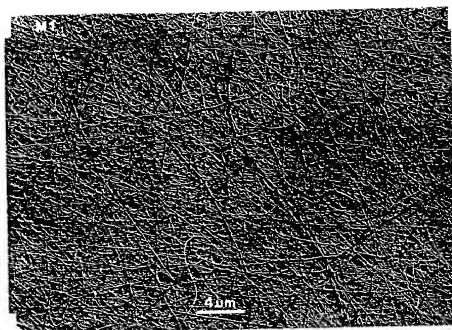


FIG.6A

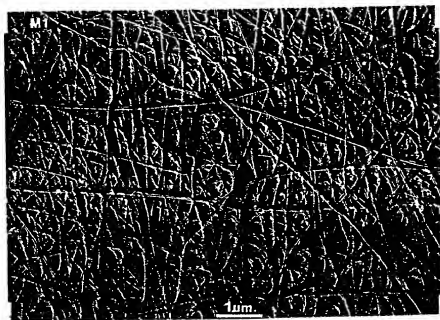


FIG.6B

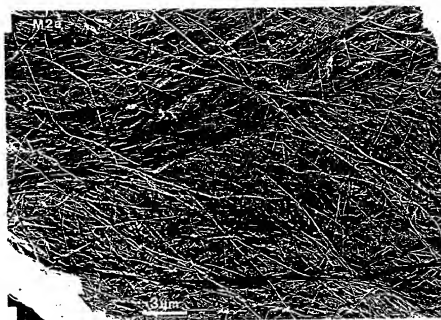


FIG.7A

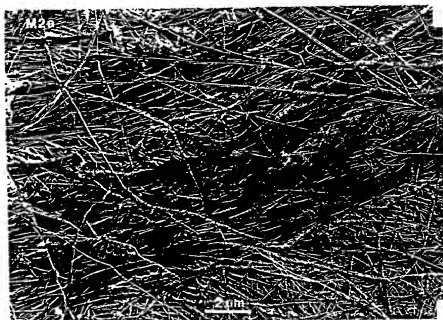


FIG.7B



FIG.8A



FIG.8B

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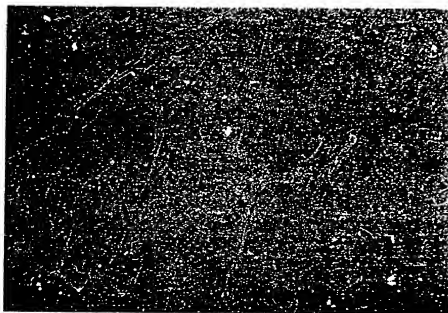


FIG.9A

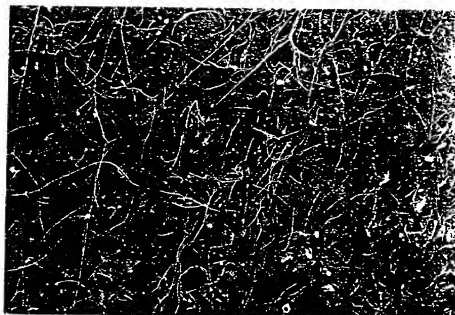


FIG.9B





FIG.9C



FIG.9D



FIG.9E

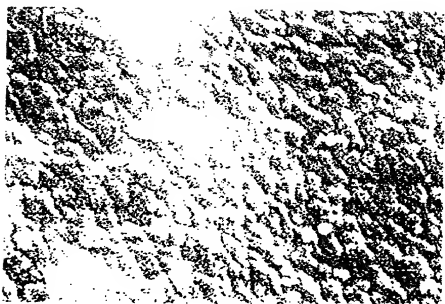


FIG.10A

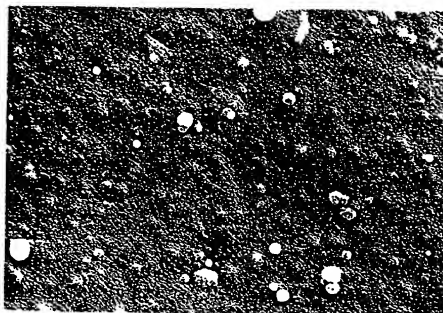


FIG.10B

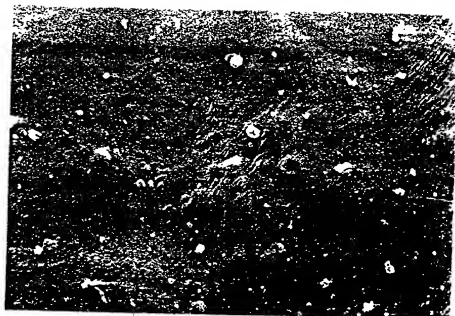


FIG.11A

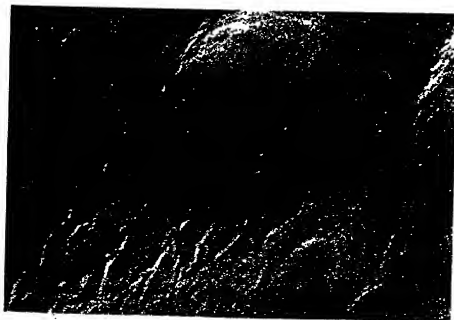


FIG.11B

201106.01004

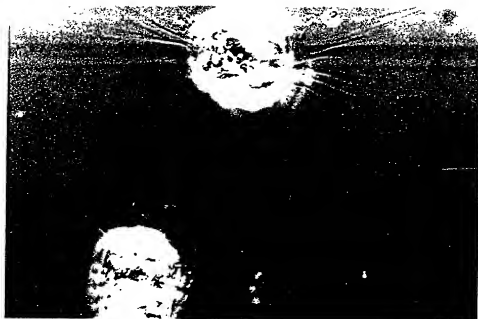


FIG.12A

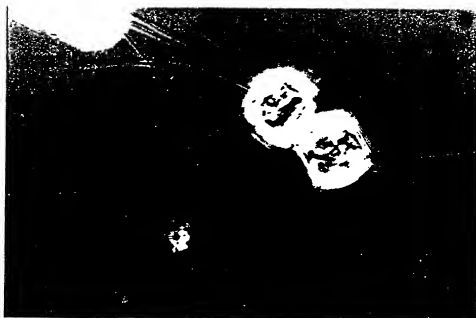
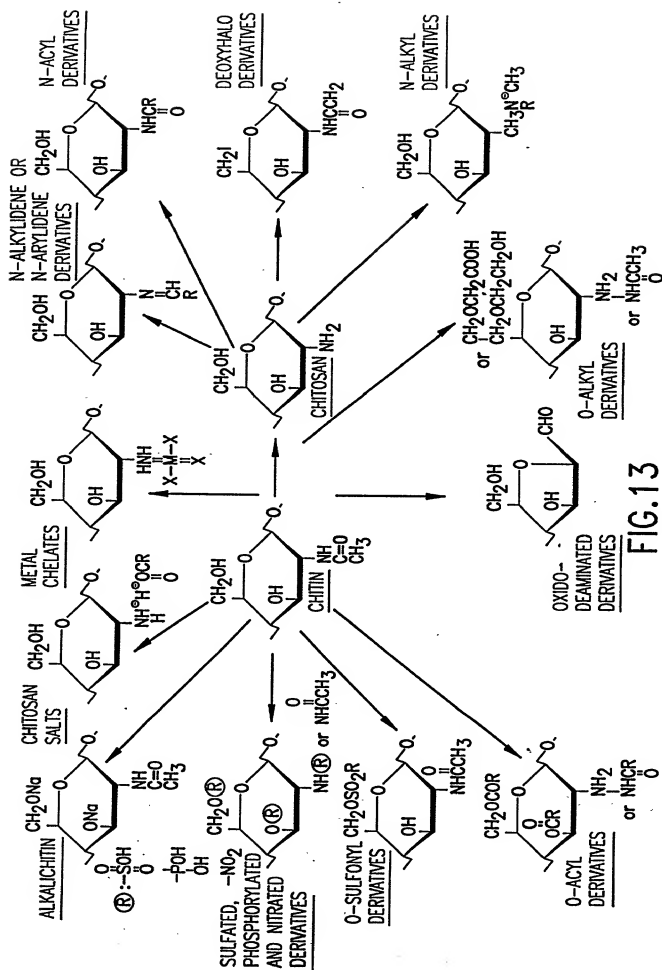


FIG.12B



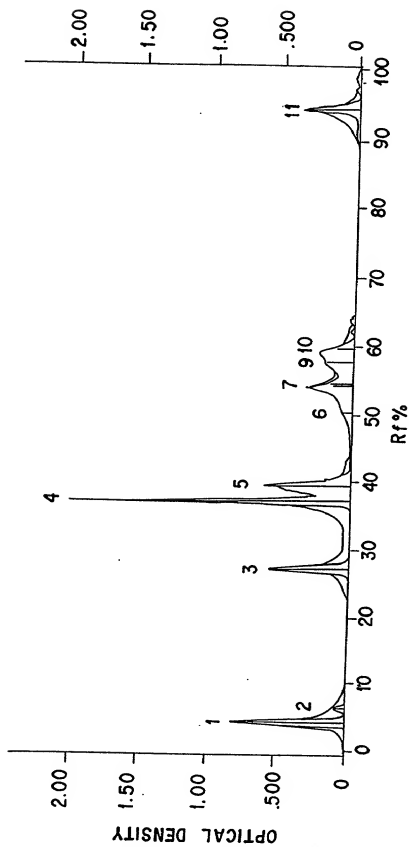


FIG. 14



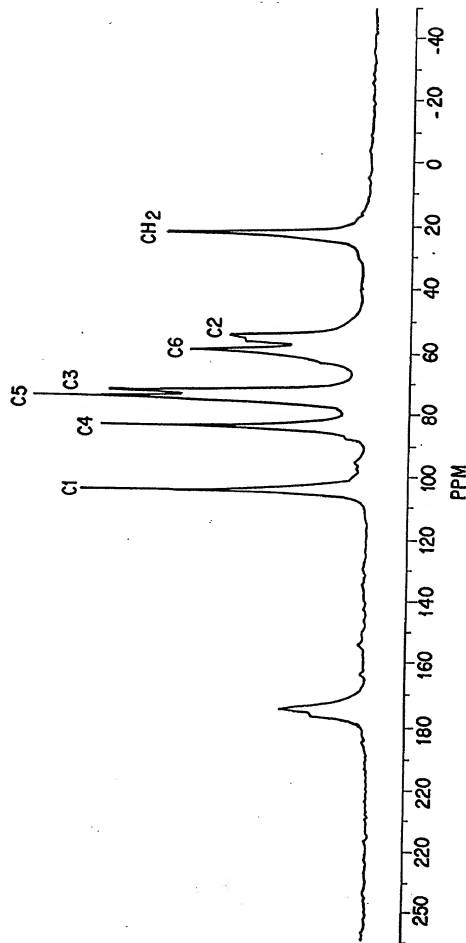
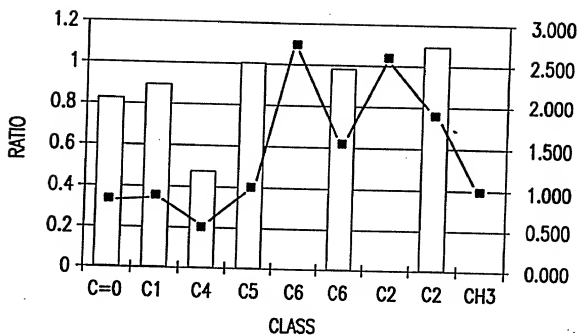
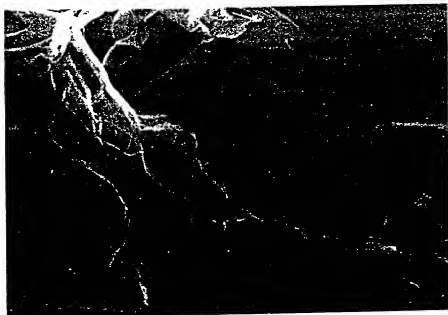


FIG. 15



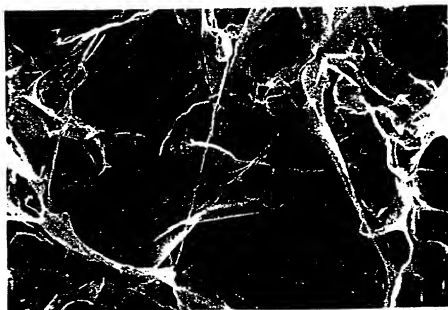
PEAK	%RF		AMPLITUDE	%SIGMA	AREA	%TOTAL		RATIO	RATIO
1	4	C=O	0.803	0.42	18.08	14.5	18.080	0.8308	0.831
2	27	C1	0.594	0.53	16.959	13.6	16.959	0.8857	0.886
3	37	C4	2.073	0.28	30.787	24.68	30.787	0.4879	0.488
4	39	C5	0.581	0.48	14.915	11.96	14.915	1.007	1.007
5	51	C6	0.096	1.06	5.504	4.413			2.729
6	54	C6	0.324	0.56	9.767	7.831	15.271	0.9836	1.538
7	57	C2	0.197	0.55	5.848	4.689			2.568
8	59	C2	0.226	0.64	7.843	6.289	13.691	1.0971	1.915
9	95	CH3	0.363	0.77	15.02	12.04	15.020		1.000

FIG. 16



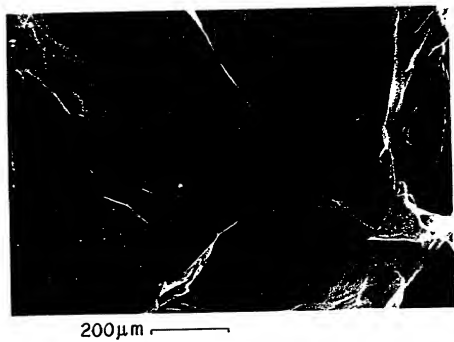
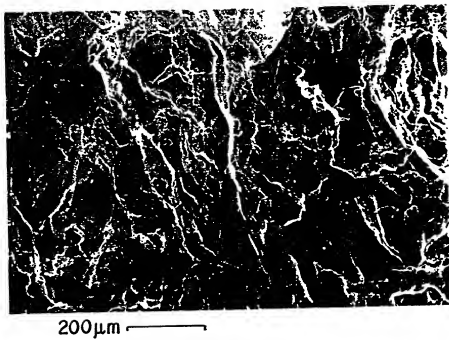
200  $\mu$ m

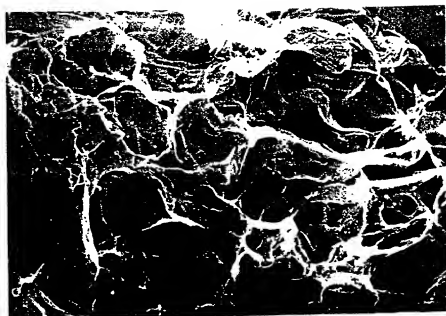
FIG. 17A



200  $\mu$ m

FIG. 17B





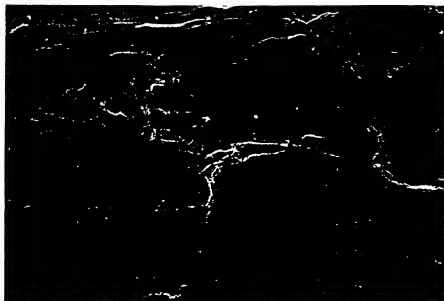
200 μm

FIG. 17E



200 μm

FIG. 17F



200 μm

FIG. 17G

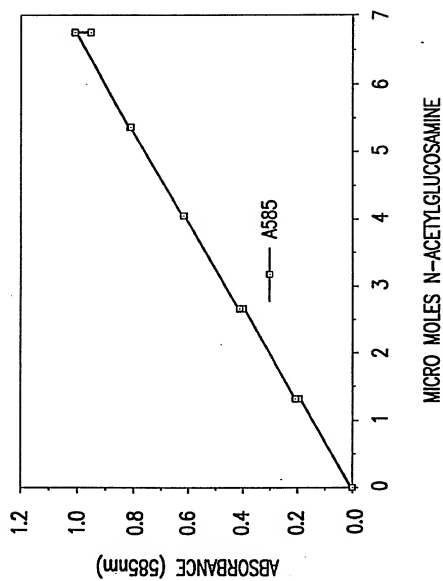


FIG. 18

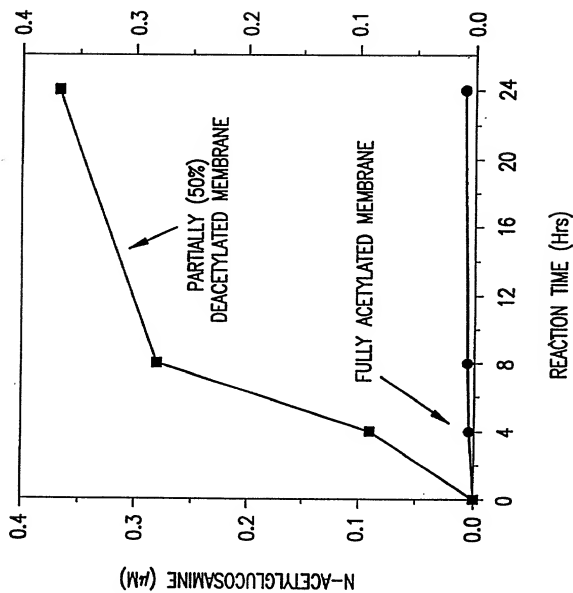


FIG. 19





PROTOTYPE 1: DAY 0

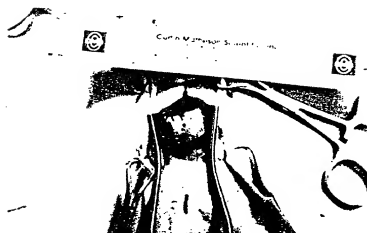


FIG. 21A

PROTOTYPE 1: DAY 14

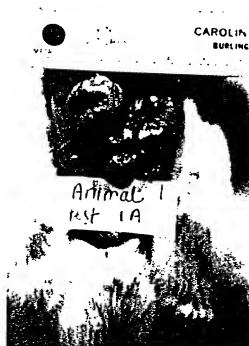


FIG. 21B

PROTOTYPE 1: DAY 21

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FIG. 21C

PROTOTYPE 3A: DAY 0



FIG. 21D

PROTOTYPE 3A: DAY 14

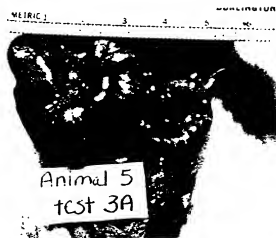


FIG. 21E

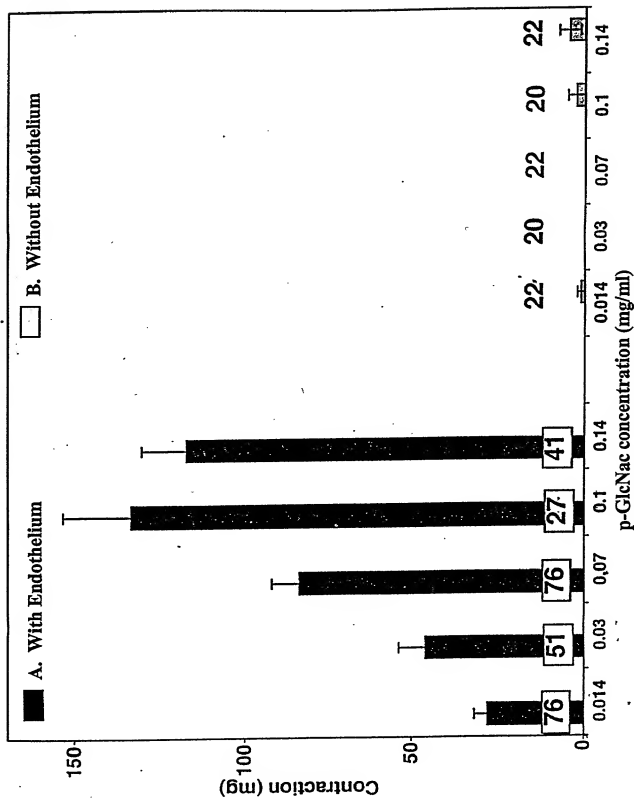


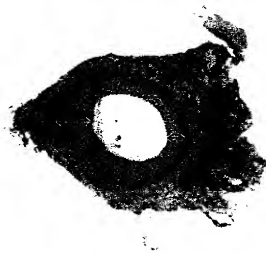
FIG. 22

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A. Gauze 60min.



B. p-GlcNac 15min.



C. p-GlcNac 60min.



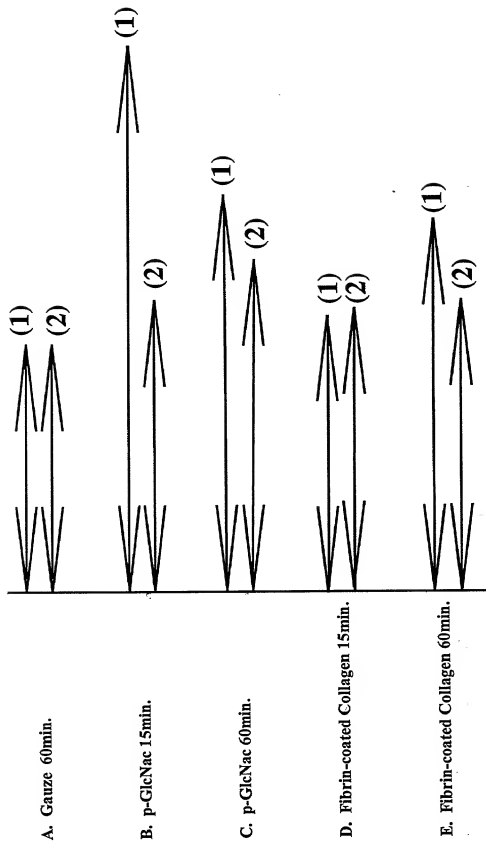
D. Fibrin-coated Collagen 15min.



E. Fibrin-coated Collagen 60min.



FIG. 23



Thickness of Arterial Smooth Muscle Layer

FIG. 24